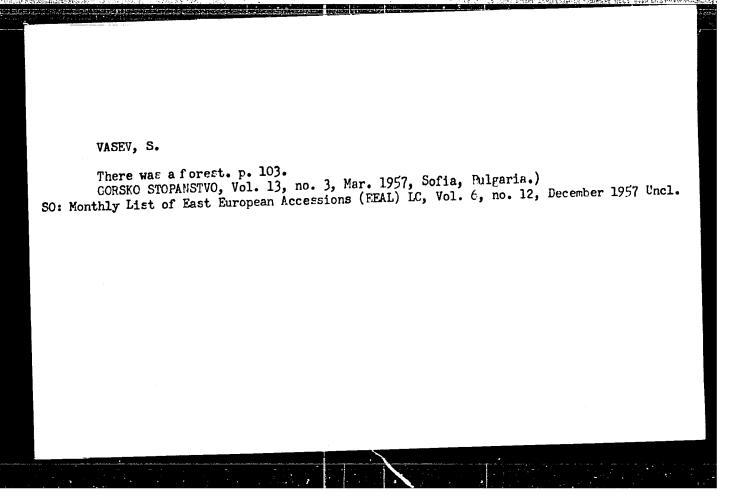
Combatting the metion du Bezop.tmida v prom. 9 no	esting the underground min(a). .4:29-32 Sp *65.	of coul. (Mind J8:5)
L. Pricneprovskiy Sovet marodnogo khozyayatva.		

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"

VASEV, Atanas

Possibilities of controlling apple-fruit worms by means of the parasitic fungus Beauveria bassiana (Bals.) Vuill. Selskostop nauka 1 no.10:1105-1108 '62.

1. Raionen nauchnoizsledovatelski institut po ovoshtarstvo v Kyustendil.



APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"

VASTV. S.

VARV. S. With collisions of the Best Ager. n. 10. Fileheart MCT. Section.

Val. b. vo. 5, My.1755.

SO: Nonthly Mat of the Best European Accession (WAL LC. Tel. B., no. 10, Oct. 1955. Uncl.

MAZAROV, 1.S. [deceased]: KOSOCKELV, Vo.1.; MEDIOKRITSKIY, Ye.L.;
GLADKIKH, B.Ya.; SPARIKOV, V.S.; VASLV, S.A.

Rapid heating of steel in compartment furnaces. Izv.vys.ucheb.
zav.; chern.mat. 5 no.6:155-166 162.

1. Sibirskiy metallurgicheskiy institut.
(Purnaces, Heating)

VASEY, V.C.; TIMENTARY, V.G.

The g-meson mass difference. IAd. fiz. 1 no.3:524-525 in 165.
(NIRA 18:1)

1. Institut matematiki s Vychislitel'nym tsentrom Sibirskego otdeleniya AN SSSR.

KOPYLOVA, Z.A.; KAMDLIKOVA, T.L.; Prinimali uchastiye: ALABYSHEVA, S.I.;

VASEVA, R.G.

Level of ascorbic acid in the blood in health subjects and in acute infections in Archangel. Vop.plt 21 no.4:66-71 Jl-Ag '62.

MIRA 15:12)

1. Iz kafedry biokhimii (zav. - dotsent M.D.Kiverin) i infektsionnoy kliniki Arkhangel'skogo meditsinskogo instituta.

(ASCORBIC ACID) (ARCHANGEL-COMMUNICABLE DISEASES)

KOPYLOVA, Z.A.; Prinimali uchastiye: Alabyshova, S.I.; BIRYUKOVA, L.V.; VASEVA, R.G.; TENIGINA, N.G.

Effect of vitamin C supplement on the level of ascorbic acid in the milk and blood of puerperants in Archangel. Vop. pit. 21 no.6:56-60 N-D '62. (MIRA 17:5)

1. Iz kafedry biokhimii (zav. - dotsent M.D. Kiverin) Arkhangel'skogo meditsinskogo instituta.

FREYDENZON, Ye.Z.; FREYDENZON, Yu.Ye.; KOTSAR', S.L.; ZATULOVSKAY', Ye.Z.;

Prinimali uchastiye: KAS'YANOVA, K.S.; MUDRIK, L.Ya.; TIMOFRYEVA,

T.D.; KOTEL'NIKOVA, Z.G.; VOYLCSHNIKOVA, A.I.; VASEVA, P.S.;

GNATYUK, P.I.; MYKOL'NIKOV, A.A.; BURKSER, A.Ye.; PONER, B.M.;

OGORODNIKOV, G.K.

Developing at efficient shape for slab ingots. Stal' 25 no.6: (MIPA 18:6)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Ye. Freydenzon, Yu. Freydenzon, Kotsar', Zatulovskaya).

Karaman Albert

SOV/112-57-6-12095

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1957, Nr 6, p 54 (USSR)

AUTHOR: Vasevich, A. Z.

TITLE: Erection of Solid Hydraulic Structures From Prestressed Concrete (Vozvedeniye massivnykh gidrotekhnicheskikh sooruzheniy s iskusstvennym obzhatiyem betona)

PERIODICAL: Tr. 2-go nauch.-tekhn. soveshchaniya po proyektir. i str-vu gidroelektrostantsiy. M.-L., 1956, pp 253-264

ABSTRACT: Prestressing concrete in the erection of hydraulic structures permits meeting two contradictory requirements: limiting tensile stresses in the concrete to the point of their complete elimination, and completely utilizing the mechanical properties of reinforcement steel of any high quality. The compression is created either by stressing the reinforcement packages under tension, or as a result of an interaction of the prestressed parts and adjacent structural members or the rock bed. Unlike the well-known methods of prestressing by mechanical means, certain peculiarities of solid hydraulic structures are used: large cross-sectional areas, heavy weight, and in some

Card 1/3

CIA-RDP86-00513R001858720006-4" APPROVED FOR RELEASE: 08/31/2001

SOV/112-57-6-12095

Erection of Solid Hydraulic Structures From Prestressed Concrete

cases favorably-oriented forces of water or soil pressure. A few methods have been developed for artificially prestressing concrete and stressing reinforcements without mechanical means. A "hydraulic" method includes sealed cavities in the body of the structure oriented normally to a tension reinforcement, which is passed loose through the concrete of the member being prestressed; the reinforcement ends are fixed; one in the tension block over the cavity, and the other in the base of the structure. Tension in the reinforcement and prestressing in the concrete are created by pumping a liquid into the cavity under 10-20 atm. Reinforcement elongation is fixed by means of shims placed along the contours of the cavities. The cavities are filled with mortar, which can also serve as a liquid for creating the necessary initial pressure. A "gravitational" method uses for prestressing the weight of the structure or parts of it or other loads applied to the structure. To this end, a part of the structure - the tension block -- is separated by a temporary through slit which permits turning the block about a specified horizontal axis. The tension block is erected in a position deviating from its ultimate position, by

Card 2/3

SOY/112-57-6-12095

Erection of Solid Hydraulic Structures From Prestressed Concrete

providing temporary supports for the block; then the supports are gradually removed, and the block goes into its designed position, causing the necessary tensile strength in the reinforcement and prestressing—the concrete. Then the temporary slit is filled with concrete and cement. Recently, a variety of the "gravitational" method has been developed that uses the elastic properties of compressed subsoil. To provide tension in the reinforcement and prestressing in the concrete, irregular subsiding of an asymmetrically-loaded foundation is used; the subsiding involves an angular shift of the foundation by virtue of which the necessity for temporary hinges and for striking work is avoided. The above methods, when actually used in the construction of a number of hydraulic structures, permitted saving up to 20% on concrete volume and cutting the cost of drainage pumping work. The above methods are also applicable to multiple-bay structures and to assembled prestressed structures.

M.G.S.

Card 3/3

VASEYEV, I.A.	4			0.70
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	(Ama)	igamation)		

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"

AUTHOR: Vaseyev, I.A. 127-58-4-22/31

TITLE: Self-Closing Chute Gate (Samozapirayushchiysya lyukovyy zatvor)

PERIODICAL: Gornyy Zhurnal, 1958, Nr 4, p 67 (USSR)

ABSTRACT: Mining Engineer N.P. Chernyshev of the Nerchinskoye Rudouprav-

leniye (The Nerchinsk Mining Administration) proposed the use of a self-closing chute gate instead of a segmented gate. This gate is placed at the opening of the chute on an axle equipped with a handle. The gate is kept closed by 2 hooks. When the hooks are released, the gate opens under the pressure of the coal in the chute and the coal car is quickly filled. There

is one figure.

ASSOCIATION: Klichkinskiy rudnik Chitinskogo sovnarkhoza (The Klichka Mine

of the Chita Sovnarkhoz)

Card 1/1 1. Coal - Handling 2. Coal chutes - Design

Wet boring in unfavorable temperatures. Gor.zhur. no.2:63 F '56. (MLRA 9:5)				
1. Nerchinskoye rudoupravleniye. (Nerchinsk RangeBoring)				

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"

VASEYKO, I., general-mayor artillerii

Eliminate the commonplace, slackening and oversimplification. Voen.

vest 43 no.1:66-69 Ja '64.

(MIRA 17:1)

VASETKO, I., general-mayor artillerii

An artilleryman needs strength and endurance. Voen. vest. 44 no.o:71-72 Je '64. (MIRA 17:5)

TERI, Rudol'f; VASH, Gabor [Vas, R.]

Research work in the field of knit goods manufacture in the Hungarian People's Republic. Izv.vys.ucheb.zav.; tekh.leg.prom. no.2:143-145 162.

1. Vengerskiy nauchno-issledovatel'skiy institut tekstil'noy promyshlennosti.

(Hungary-Knit goods industry)

CIA-RDP86-00513R001858720006-4" APPROVED FOR RELEASE: 08/31/2001

VASH, I. [Vas, I.]

New indices for the determination of the concentration level and the production technology in forge shops. Kuz.-shtam. proizv. 5 no.12:32-34 D *63. (MIRA 17:1)

BONDARHNKO, D.C., red.; BUGAYHNKO, P.I. [Buhaienko, P.I.], red.; VASH, O.V., red.; KLIMPOTYUK, M.V., red.; PASTUSHNNKO, M.S., red.; POVKH, V.O., vidp. red.; POLISHCHUK, V.P., red.; RUSIN, V.P., red.; FESKN KO, V.V., red.; LUCHKIV, M., tekhn. red.

[Soviet Transcarpathia; a handbook] Radians'ke Zakarpattia; dovidnyk. Ushhorod, Zakarpats'ke obl. vyd-vo, 1957. 239 p. (MIRA 11:7)

(Transcarpathia)

SABO, I.; DEZHI, Z.; VASH, Y.; D'YERDYAI, F. (Tyrgu-Muresh, Rumyniya)

Effect of silicic acid on carbohydrate metabolism in animals. Pat.fiziol. i eksp. terap. 5 no.3:76 My-Je '61. (MIRA 14:6)

1. Iz nauchno-issledovatel'skoy bazy Akademii nauk Rumynskoy narodnoy Respubliki i kafedry fiziologii Mediko-farmatsevticheskogo instituta.

(SILICIC ACID) (BLOOD SUGAR)

SABO, I.; VASH, Ye. [Vas, E.]; GRIDNEVA, A.G.

Effect of some ferment poisons on the heart muscle at various temperatures. Biul. eksp. biol. i med. 52 no.11:72-76 N '61.

(MINA 15:3)

1. Iz filiala Akademii nauk Rumynskoy Narodnoy Respubliki i iz kafedry normal'noy fiziologii Meditsinskogo instituta Tyrgu-Muresh, Rumyniya. Predstavlena deystvitel'nym chlenom AMN SSSR A.V. Lebedinskim.

(HEART-MUSCLE)

(POISONS—PHYSIOLOGICAL EFFECT)
(TEMPERATURE—PHYSIOLOGICAL EFFECT)

VASHADZE, E.S.

Establishing optimum concentrations of some solutions for foliar feeding of grapevines. Soob. AN Gruz. SSR 20 no.1:35-40 Ja '58.

(MIRA 11:6)

1. Institut pochvovedeniya, agrokhimii i melioratsii AN GruzSSR, Tbilisi. Predstavleno chlenom-korrespondentom Akademii Sh.F. Chanishvili.

(Viticulture) (Fertilizers and manures)

VASHADZE, E. S., Cand Agr Sci -- (diss) Effectiveness of root and extraroot nutrition supplements for grapevines." Tbilisi, Georgian Agricultural Inst Press, 1960. 21 pp; (Ministry of Agriculture Georgian SSR, Academy of Agricultural Sciences Georgian SSR, Scientific Research Inst of Soil Science, Agrochemistry, and Land-reclamation); 150 copies; free; (KL, 17-60, 162)

COLDUCAY LOTTE
CATCLERY GALLED ASSPCCTORLOSY, Maleurs
Insect and Mile Pests.
ABS. JOUR: Ref Zhur-Biologiya, No. 4, 1959, No. 16298

AUTHOR : Vashadze, N.V.
INST: AS Georgian Est
TITLE : Ple Mandel Montant Fests of Amuit Orebords of Lokhazdkaye, Armenian USP.

ORIG. PUB.: Sulthumi, All Gruzser, 1958, 26 str., 111., 60 kop.

ABSTRACT : No Abstract.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"

VASHADZE, V.H

NAZAREVSKIY, S.I.; MAKAROV, S.N.; PILIPENKO, F.S.; GERASIMOV, M.V.; IL'INSKAYA, M.L.; VEKSLER, A.I., [deceased]: VASIL'YEV, I.M.; IL'INA, N.V.; SOKOLOV, S.Ya.; LOZINA-LOZINSKAYA, A.S.; SAAKOV, S.G.; ZALESSKIY, D.M.; AVRORIN, H.A.; IVANOV, M.I.; PRIKLADOV, H.V.; SOBOLEVSKAYA, K.A.; SALAMATOV, M.H.; MALINOVSKIY, P.I.; LUCHNIK, A.I.; KRAVCHENKO, O.A.; VEKHOV, N.K.; GROZDOV. B.V.; MASHKIN, S.; BOSSE, G.G.; PALIN, P.S., (g. Shuya, Ivanovskoy oblasti); MATUKHIN; ZATVARNITSKIY, G.F.; GRACHEV, N.G.; CHERKASOV, M.I.; KIRKOPULO, Ye.N.; LEVITSKAYA, A.M.; GRISHKO, N.N.; LIKHVAR', D.F. VIL'CHINSKIY, N.M.; LYPA, A.L.; OREKHOV, M.V.; SHCHERBINA, A.A.; TSYGANKOVA, V.Z.; BARANOVSKIY, A.L.; GEORGIYEVSKIY, S.D.; STEPUNIN, G.A. OZOLIN, E.P.: LUKAYTENE, M.K.: KOS, Yu.I.; VAIL'YEV, A.V.; RUKHADZE, P.Ye.; VASHADZE, V.N.; SHANIDZE, V.M.; MANDZHAVIDZE, D.V.; KORKESHKO, A.L.; KOLESNIKOV, A.I., (g. Sochi); SERGEYEV, L.I.; VOLOSHIN, M.P.; RYBIN, V.A.; IVANOVA, B.I.; RYABOVA, T.I.; GAREYEV, E.Z.; RUSANOV, F.N.; BOCHANTSEVA, Z.P.; BLINOVSKIY, K.V.; KLYSHEV, L.K.; MUSHEGYAN, A.M.; LEONOV. L.M.

Talks given by participants in the meeting. Biul.Glav.bot.sada no.15: 85-182 '53. (MLRA 9:1)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR (for Makarov,Pilipenko, Gerasimov, Il'inskaya, Veksler); 2. Akademiya komunal'nogo khozyay-stva imeni K.D. Pamfilova for Vasil'yev); 3. Vsesoyuznaya sel'skokhozyaystvennaya vystavka (for Il'ina); 4. Botanicheskiy sad Botanichezyaystvennaya vystavka (for Il'ina); 4. Botanicheskiy sad Botanicheskogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, Lozina-Lozinskaya, Saakov); 5. Botanicheskiy sad Leningradskogo (continued on next card)

生物 医甲基甲基甲基甲基

NAZAREVSKIY, S.L. --- (continued) Card 2.

gosudarstvennogo ordena Lenina universiteta (for Zalesskiy): 5. Pol varno-Al'piyskiy botanicheskiy sad Kol'skogo filiala imeni S.M. Kirova Akademii nauk SSSR (for Avrorin); 7. Botanicheskiy sak pri Tomskom gosudarstvennom universiteta (for Ivanov); 8. Botanicheskiy sad pri Tomskom gosudarstvennom universiteta imeni V.V. Kuybysheva (for Prikladov): 9. TSentral nyy Sibirskiy botanicheskiy sad Zapadno-Sibirskogo filiala Akademii nauk SSSR (for Salamatov, Sobolevskaya); 10. Botanicheskiy sad Irkutsko gosudarstvennogo universiteta imeni A.A. Zhdanova (for Malinovskiy); 11. Altayskaya plodovo-yagodnaya opytnaya stantsiya (for Luchnik); 12. Bashkirskiy botanicheskiy sad (for Kravchenko); 13. Lesostepnaya selektsionnaya opytnaya stantsiya dekorativnykh kul'tur tresta Goszelenkhoz Ministerstva kommunal'nogo khozyaystva RSFSE (for Vekhov); 14. Bryanskiy lesokhozyaystvennyy institut (for Grozdov); 15. Botanicheskiy sad pri Voronezhskom gosudarstvennom universitete (for Mashkin); 16. Orekhovo-Zuyevskiy pedago-gicheskiy institut (for Bosse); 17. Botanicheskiy sad pri Rostovskom gosudarstvennom universitete imeni V.M. Molotova (for Matukhin); 18. Botanicheskiy sad Kuybyshevskogo gorodckogo otdela narodnogo obrazovaniya (for Zatvarnitskiy); 19. Zoobotanicheskiy sad pri Kazanskom universitete (for Grachev); 20. Gosudarstvennyy respublikanskiy proektnyy institut "Giprokommunstroy" (for Cherkasov); 21. Botanicheskiy sad Cdesskogo gosudarstvennogo universiteta imeni I.I. Mechnikova (for Kirkopulo): 22. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 23. Botanicheskiy sad (continued on next card)

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NAZAREVSKIY, S.L .-- (continued) Card 3.

Akademii nauk USSR (for Grishko, Likhvar', Vil'chinskiy); 24. Kiyevskiy sel'skokhozyaystvennyy institut (for Lypa); 25. Botanicheskiy sad Chernovitskogo gosudarstvennogo universiteta (for Orekhov); 26. Botanicheskiy sad pri Livovskom gosudarstvennom universitete imeni Iv. Franko (for Shcherbina); 27. Botanicheskiy sad Khar'kovskogo gosudarstvennogo universiteta imeni A.M. Gor'kogo (for TSygankova); 28. Botanicheskiy sad Zhitomirskogo sel'skokhozyaystvennogo instituta (for Baranovskiy); 29. Botanicheskiy sad Akademii nauk Belorusskoy SSR (for Georgiyevskiy); 30. Institut biologii Akademii nauk Belorusskoy SSR (for Stepunin); 31. Botanicheskiy sad Akademii Litovskoy SSR (for Lukaytene); 32. Botanicheskiy sad Latviyskogo gosudarstvennogo universiteta (for Ozolin); 33. Kabardinskiy krayevedcheskiy botanicheskiy sad (for Kos); 34. Sukhumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Vasil'yev, Rukhadze): 35. Batumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Shanidze): 36. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Mandzhavidze): 37. Sochinskiy park Dendrariy (for Korkeshko); 38. Gosudarstvennyy Nikitskiy botanicheskiy sad imeni V.M. Molotova (for Sergeyev, Voloshin); 39. Krymskiy filial Akademii nauk SSSR (for Rybin); 40. Botanicheskiy sad Moldavskogo filiala Akademii nauk SSSR (for Ivanova); 41. Botanicheskiy sad Botanicheskogo instituta Akademii nauk Tadzhikskoy SSR (for Ryabova); 42. Botanicheskiy sad Kirgizskogo filiala Akademii nauk SSSR (for Gareyev): 43. Botanicheskiy (continued on next card)

NAZAREVSKIY, S.L. -- (continued) Card 4.

sad Akademii nauk Usbakskoy SSR (for Rusanov, Bochantseva); 44. Botanicheskiy sad Akademii nauk Turkmenskoy SSR (for Blinovskiy); 45. Respublikanskiy sed Akademii nauk Kazakhskoy SSR (for Klyshev, Mushegyan).

(Botanical gardens)

Study of the linden mite (Eriophyes tiliae Nal.) Biul.Glav.bot.sada no.16:97-98 53. (MLRA 7:4) 1. Botanicheskiy sad Akademii nauk Grusinskoy SSR. (Linden-Diseases and pests) (Mites)

VASHADZE, V.N., kandidat sel'skokhozyaystvennykh nauk.

Pest of the holm oak. Priroda 45 no.2:94-95 F '56. (MLEA 9:5)

1. Sukhumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR. (Black Sea region--Oak--Diseases and pests)

USSR/General and Specialized Zoology - Insects.

P.

Abs Jour

: Ref Zhur - Biol., No 8, 1958, 35326

Author

: Vashadze, V.N.

Inst Title

To the Problem of the Biological Study of the Linden Con-

tarinia tiliarum Kieff and Methods of Its Control.

Orig Pub

: Tr. Sukhumsk. Botan. sada, 1956, vyp. 9, 489-494.

Abstract

: Damages of the linden flowers by the Contarinia tiliarum in Georgia during some years led to a decrease in the honey yield. The damages were noted. The imago, larvae and pupa were described. The pest had one generation. The larvae pupated in the upper soil layer under damaged trees. Digging of the soil under the damaged trees and a full turn over of the layer of the soil was recommended; it was also suggested that at a mass propagation in the spring prior to the emergence of the imago a 7% solution

Card 1/2

- 28 -

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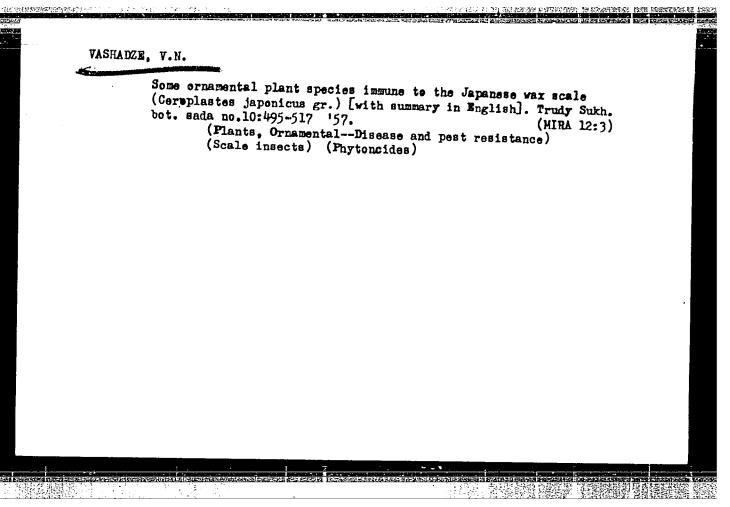
USSR/General and Specialized Zoology - Insects.

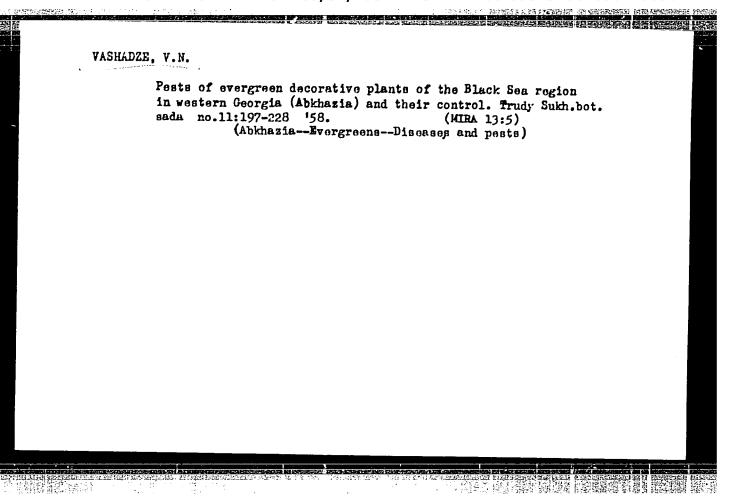
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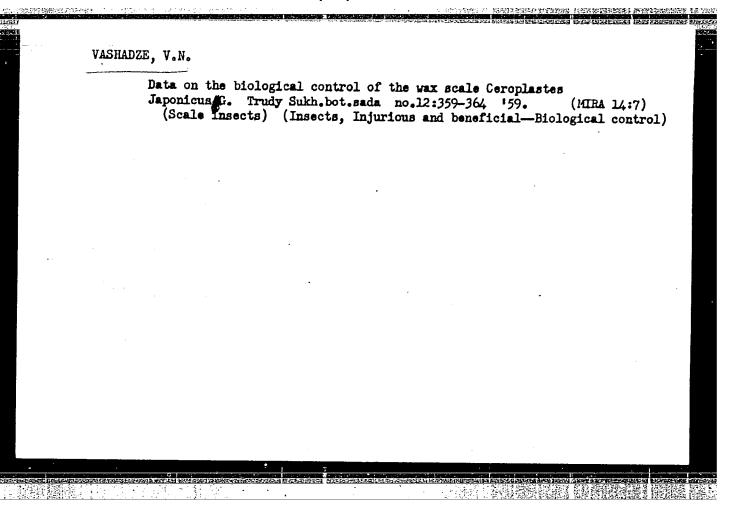
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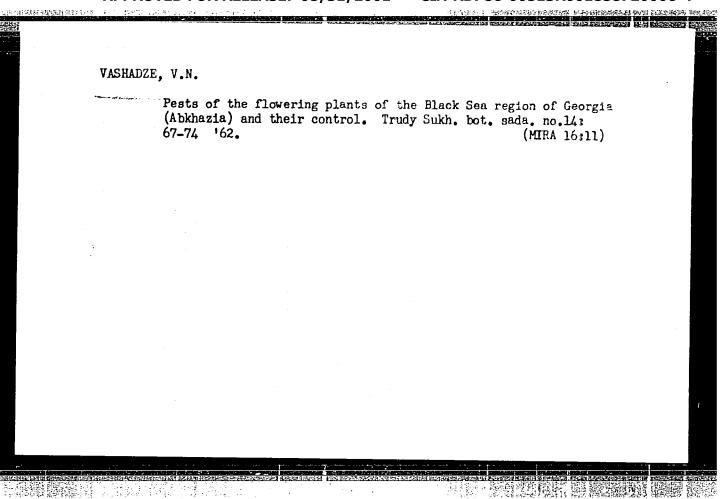
: Ref Zhur - Biol., No 8, 1958, 35326

of HCCH dust (10 g/m^2) be used twice under the crowns and subsequently the surface fixed with a rake.









VASHAK, V. P.

VASHAK, V. P. "Fertilizing long-staple Flax outside the roots During the Crowing Season." Moscow Order of Lenin Agricultural Academy ineni K. A. Timiryazev. Moscow 1956.

(For the Degree of Candidate in Agricultural Science)

So: Knizhnaya Letopis' No. 18, 1956

VACHARIDZE, A. I. -- "Mathodo of Lecturing on the Cultact. The raise l'ilitary Intervention in the Givil War in the lith Class of Interventiate School." Thilisi State U imeni I. V. Stalius. Thilisi, Igr. (Dispertation for the Pegree of Candidate in Fedagorical Sciences)

SC: Knizhnaya Letopis', No 1, 1977

SOV/137-58-11-22337

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 70 (USSR)

AUTHOR: Vashakidze, A.S.

TITLE: Determining the Contact Area of Rolled Material and Rolls Upon Rolling in Nonrectangular Grooves (Opredeleniye kontaktnoy

ploshchadi prokatyvayemogo materiala s valkami pri prokatke ne

v pryamougol'nykh kalibrakh)

PERIODICAL: Soobshch. AN GruzSSR, 1957, Vol 19, Nr 5, pp 591-596; in

Georgian

ABSTRACT: Mathematical calculations are made for two propositions:

a) Determination of the horizontal projection of the contact area between the rolled material and the rolls on rolling in slitting passes with free spread, and b) determination of the horizontal projection of the contact area between the rolled material and the

rolls upon rolling in slitting passes with constrained spread.

Card 1/1

VASHAKIDZE, A. S.: Master Tech Sci (diss) -- "The effect of elements in the geometry of profile grooves on the power consumption in rolling". Tbilisi, 1958.

20 pp (Min Higher Educ USSR, Georgian Order of Labor Red Banner Polytech Inst im S. M. Kirov), 150 copies (KL, No 8, 1959, 136)

VASHAKIDZE, A.S.

Effect of the shape of the section groove on power requirements in rolling. Soob, AN Gruz, SSR 21 no.2:163-170 Ag '58, (MIRA 12:6)

1. AN Gruz, SSR, Institut metallurgii, Tbilisi. Predstavleno chlenom-korrespondentom Akademii F, N. Tavadze.

(Rolling (Metalwork))

MOZADZE, A.D.; VASHAKIDZE, A.S.

Studying a system of oval - square calibers. Soob.AM Gruz. SSR 25 no.2:171-178 Ag '60. (MIRA 13:11)

1. AN GruzSSR, Institut metallurgii, Tbilisi. Predatavleno chlenom-korrespondentom Akademii F.N.Tavadze. (Calibration) (Rolling (Metalwork))

NOZADZE, A.D.; VASHAKIDZE, A.S.

Investigating a set of rhomic and square gauges. Soob. N Gruz. SSR 25 no. 3:319-326 S '60. (MIRA 14:1)

1. Akademiya nauk Gruzinskoy SSR, Institut metallurgii, Tbilisi. Predstavleno chlenom-korrespondentom Akademii nauk Gruzinskoy SSR F.N. Tavadze.

(Rolling (Metalwork))

VASHAKIDZE, A.S.

Investigating pressure parameters in rolling in flanged grooves. Trudy Inst. met. AN Gruz. SSR vol. 13:189-204 '62.

Rolling in flanged grooves. Ibid.: 205-210 62. (MIRA 17:9)

NOZADZE, A.D.; VASHAKIDZE, A.S.

Rolling a square (or rectangular) strip in oval groves. Trusy
Inst. met. All Graz. CSR vol. 13:211-229 162. (Mida 17:9)

VASHAKIDZE, A.S.

Stress calculation in hot rolling of thick strips. Scob. AN Gruz. SSR 35 no.2:371-378 Ag *64. (MIRA 17:12)

1. Submitted February 15, 1964.

是有關語學學可以 中国的 医克里氏

VACHAKIDZE, A.S., SHARASERIDZE, D.A. Devermining forces in rolling with smooth rolls and with box greeves. Sooh. AN Gruz. SSR 40 no.lil40-145 0 165. 1. Gruzinskiy institut metallurgil. Submitted February 17, 1966.

> APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"

TER-GAZARYAN, G.N., doktor tekhn.nauk; VASHAKIDZE, A.Sh., inzh.

Operation of three-phase salient-pole generators with two phases of the stator being loaded by nominal current. Vest. elektroprom. 34 no.2:22-25 F '63. (MIRA 16:2)

(Electric transformers—Testing)

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VASHAKIDZE, D. R. Priblizhennyye formuly dlya ellipticheskikh integralov vtorogo roda. Tbilisi. Soobshch. Al! GrSSR, 2 (1941), 597-599

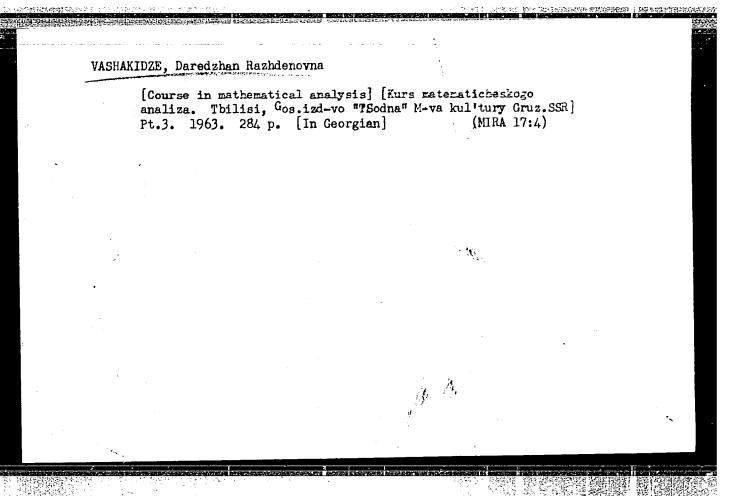
SO: Mathematics in the USSR, 1917-1947 edited by Kurosh, A. G. Markushevich, A. J. Rashevskiy, P. K. Moscow, Leningrad, 1948

VASHAKIDZE, D. H. 23925 VASHAKIDZE, D. R. Resheniye Hekotorykh Krayevykh Zadau Hatematicheskoy Fiziki Metodom Tochechnoy Interpolyatsii. Trudy Tbilis. Pos. Fed. IN-TA IM. Pushkina, T. VI, 1949, S 329-37.

--Rezyume Ma Gruz. Yaz. SO: Letopis, No. 32, 1949.

> APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"

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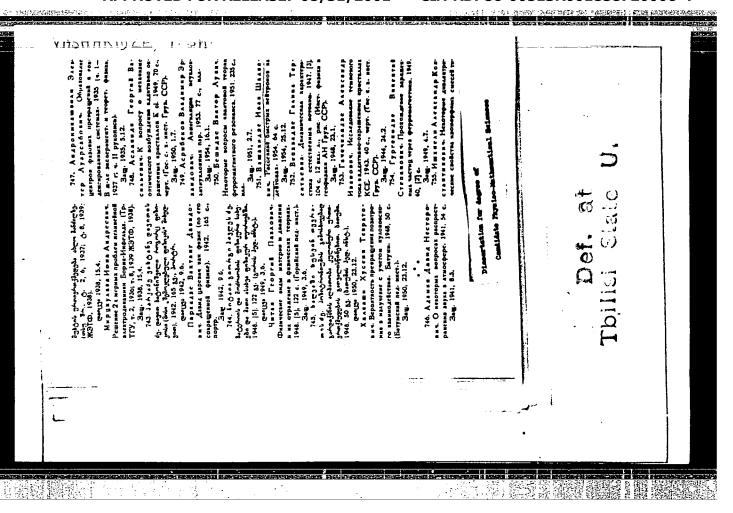
MELIKADZE, L.D.; VASFAKIDZE, E.Ya.; GURGENIDZE, Z.I.

Flare-up of fluorescent solutions of some condensed arcmatic hydrocarbons under ultraviolet irradiation. Soob. AN GruzSSR 37 no.2:305-310 F '65. (KIRA 18:3)

1. Institut khimii im. F.G. Nelikishvili AN GruzSSR. Submitted July 23, 1964.

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858720006-4



USSR/Nuclear Physics - Photoelectric Fission of Lithium

FD-627

Card 1/1

: Pub. 146-17/18

Author

: Vashakidze, I. Sh. and Chilashvili, G. A.

Title

: Photoelectric fission of the nucleus of Li⁶

Periodical

: Zhur. eksp. i teor. fiz. 26, 254-255, February 1954

Abstract

: Letter to the editor about fission of the lithium nucleus and the feasibility of regarding this nucleus in certain theoretical discussions as a system consisting of an alpha-particle and a deuteron. The authors thank Prof. V. I. Mamasakhlisov for his assistance.

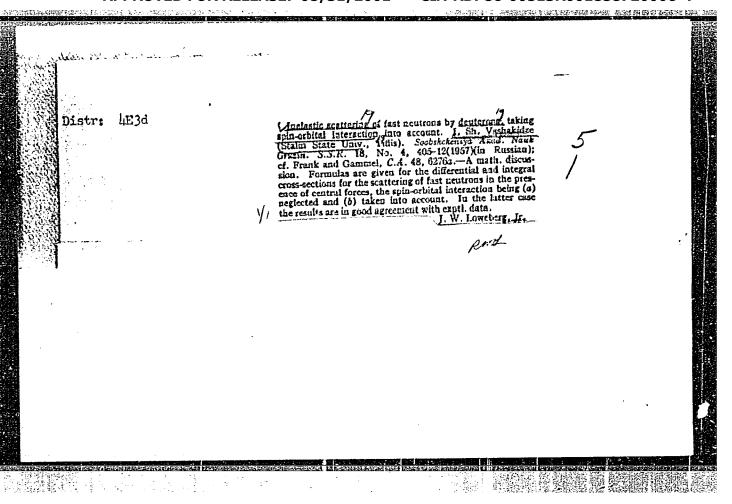
Institution : Tbilisi State University

Submitted : July 23, 53

VASHAKIDZE, I. SH.

"Dispersion of Fast Neutrons on Deuterons." Cand Phys-Math Sci, Tbilisi State U imeni I. V. Stalin, Tbilisi, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55



VASHAKIDZE, I.Sh.

Angula distribution of protons from (nd) inelastic scattering.
Soob.AM Grus.SSR 18 no.6:663-670 Je '57. (MIRA 10:10)

1. Tbilisskiy gosudarstvennyy universitet im. Stalina. Predstavleno chlenom-korrespondentom Akademii V.I.Mamaskhlisovym.

(Protons--Scattering)

SOV/56-35-4-51/52

21(7) AUTHORS:

Vashakidze, I. Sh., Cheyshvili, O. D.

TITLE:

On d+d Reactions (O d+d-reaktsiyakh)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1958,

Vol 35, Nr 4, pp 1062-1063 (USSR)

ABSTRACT:

According to D. I. Blokhintsev (Ref 1) the production of "Superbarrier Fragments" in the spallation of nuclei by high-energy nucleons might be explained on the basis of the assumption that fluctuation-like dense accumulations of nucleons

may occur during the motion of nucleons in the nucleus. By the direct collision of the inciding particle with these accumulations, "Super-Barrier"fragments are produced. The results obtained were compared with the scattering of 675 MeV protons on light nuclei. Several nuclear reactions are suited for the checking of these theories, among them the d+d reactions at equal energies. These reactions can develop through

the following channels: d+d (1), d+n+p (2), 2n+2p (3),

He³ + n (4), H³+p (5), He⁴+ γ (6). The cross sections of these reactions can be written down as follows: $\sigma_i = \sigma_t W_i$.

Card 1/2

On d+d Reactions

sov/56-35-4-51/52

Here $\sigma_{\mathbf{t}}$ denotes the total cross section of the d+d reaction, $\Psi_{\underline{i}}$ - the probability of the development of the d+d reaction through the i-th channel, σ_i - the cross section of the i-th reaction. Next, expressions are written down for the aforementioned 6 W_i. Finally, $\sigma_1/\sigma_3\sim 5\cdot 10^{-5}$ and $\sigma_2/\sigma_3\sim 1\cdot 4\cdot 10^{-2}$ is obtained. The ratio σ_1/σ_5 is probably nearly equal to 1. The reactions discussed here are, in the case of high energies, probably caused essentially by indirect interactions. There are 2 references, 1 of which is Soviet.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet

(Tbilisi State University)

April 25, 1958 SUBMITTED:

Card 2/2

CIA-RDP86-00513R001858720006-4" **APPROVED FOR RELEASE: 08/31/2001**

AUTHORS: Vashakidze I. Sh. Kopaleyshvili, T. I., SOV/56-37-3-24/62 Chilashvili, G. A.

TITLE: Resonance Scattering of Y-Quanta on the Mg 24 Nucleus

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959,

Vol 37, Nr 3(9), pp 750-755 (USSR)

ABSTRACT: The present paper deals theoretically with the resonance scattering of Y-quanta on the Mg²⁴ nucleus with excitation of the level 2⁺ (1.37 Mev) and 2⁺ (4.23 Mev). F. Metzger (Ref 2), N. A. Burgov, and Yu. V. Terekhov (Ref 3) determined experimentally the width of the level 2⁺ (1.37 Mev) by the method of resonance scattering. If the Mg²⁴ nucleus is assumed to be weakly deformed, the level 2⁺ (1.37 Mev) may be regarded either as a collective (rotational) level with the momentum I = 2

(and with the projection K = 0 to the axis of symmetry of the nucleus) or also as a simple particle level (which is due to the excitation of a single nucleon in the field of the deformed nucleus). The nucleus of the resolution of the nucleus of t

Card 1/4 excitation of a single nucleon in the field of the deformed nucleus). The nucleus in the shell N = 2 may be on the levels

Resonance Scattering of y-Quanta on the Mg24 Nucleus SOV/56-37-3-24/62

 $\Omega=\pm 1/2$, $\pm 3/2$, and $\pm 5/2$. In this connection three different levels correspond to the case $\Omega=\pm 1/2$, to the case $\Omega=\pm 3/2$ two, and to the case $\Omega=\pm 5/2$ one level (Ω denotes the projection of the momentum of the nucleon to the axis of symmetry of the nucleus). The distance between these levels depends on the value $\hbar\omega$ and on the parameter of deformation δ . According to the selection rules, only the transitions $1/2 \longrightarrow 1/2$ and $3/2 \longrightarrow 3/2$ are possible in Mg²⁴. The value $\delta=\pm 0.2$ is found for the Nilsson parameter in the transition $1/2 \longrightarrow 1/2$, in the transition $3/2 \longrightarrow 3/2$, however, it holds that $\delta=0$. The widths of the excited 1.37 Mev level are tabulated. The case with $\delta=-0.2$ is out of question. At $\delta=0.2$, the theoretical value of the width is considerably higher than the experimental one. If the value of δ (i.e. C.3) is higher, the agreement with the experiment will probably be better. Angular distribution does not depend on the choice of the nuclear model as far as pure E2 transition is concerned. A different result with respect to the dependence of angular distribution on the nuclear model is, however, obtained if the resonance scattering of γ -quanta on the Mg²⁴ nucleus with excitation of the second level

Card 2/4

Resonance Scattering of y-Quanta on the Mg²⁴ Nucleus SOV/56-37-3-24/62

 2^+ (4.23 Mev) is considered. From this level y-transition to the ground level and to the first excited level is possible. In the transition to the ground level, the distribution of y-quanta again does not depend on the choice of the nuclear model. In the transition to the first excited level, the transitions E2 and M1 are possible. The following relations hold for the probabilities: W[E2(2 \rightarrow 1) \sim W[E2(2 \rightarrow 0)], W[M1(2 \rightarrow 1)] \sim W[E2(2 \rightarrow 1)] . The figures 0.1, and 2 denote the ground level and the first and second excited level. Moreover, it holds that W[E2(2 \rightarrow 1)] / W[E2(2 \rightarrow 0)] \sim 1 . W[M1(2 \rightarrow 1)] / W[E2(2 \rightarrow 1)] / Transition 2 \rightarrow 1 is no pure E2 transition. A formula is written down for the computation of the correlation function. After fairly extensive computations I(0) \sim (1 + A cos 0 + B cos 2 0 + C cos 3 0 + D cos 4 0) is obtained, where A = 0.11; B = -1.5; C = -0.3; D = 0.7.

Card 3/4

Resonance Scattering of Y-Quanta on the Mg 24 Nucleus SOV/56-37-3-24/62

O denotes the angle between the absorbed and the emitted y-quantum. Experimental investigation of the correlation of the y-quanta in the excitation of the Mg²⁴-nucleus with the energy 4.23 Mev may lead to certain conclusions on the character of excitation of this nucleus. Unfortunately, such experiments have not yet been made. The authors thank V.I. Mamasakhlisov for his supervision and constant interest. There are 2 figures, 1 table, and 12 references, 7 of which are Soviet.

ASSOCIATION: Institut fiziki Akademii nauk Gruzinskoy SSR

(Physics Institute of the Academy of Sciences of the

Gruzinskaya SSR)

SUBMITTED: March 31, 1959

Card 4/4

82422 s/056/60/038/03/26/033 B006/B014

24.6510 AUTHORS:

Vashakidze, I. Sh., Kapaleyshvili, T. I., Mamasakhlisov, V. I., Chilashvili, G. A.

TITLE:

The Structure of the Be Nucleus

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960, PERIODICAL: Vol. 38, No. 3, pp. 937-941

TEXT: Investigations conducted by other authors seem to indicate that the Be nucleus consists of two alpha particles and one neutron. Suh has proved that the binding energy of the Aparticle in the hypernucleus ABe9 can be made to agree with experiments only if one assumes that this particle moves in the field of the two alpha particles. Similarly, one may assume for the ordinary Be9 nucleus that the neutron moves in the field of the two alpha particles. In the article under review, the authors want to find out whether such a system is stable, and how the energy spectrum of the nucleus can be interpreted with the help of this model. The

Hamiltonian on which investigations are based reads: H = $-(\hbar^2/2\mu_{\alpha})\Delta_{\rm u}$ -

Card 1/3

The Structure of the Be Nucleus

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- $(\hbar/2\mu)\Delta_0$ + $V_{n\alpha}(|\vec{q}-\vec{u}/2|)$ + $V_{n\alpha}(|\vec{q}+\vec{u}/2|)$ + $V_{\alpha\alpha}(u)$ + $C_{\alpha\alpha}(u)$; \vec{u} denotes the radius vector of the alpha particles, \vec{q} is the radius vector of the neutron with respect to the center of mass of the two alpha particles, \vec{v} and $\vec{v}_{\alpha\alpha}$ are the possible energies of the na- and/or $\alpha\alpha$ -interaction, $C_{\alpha\alpha}$ is the possible energy of the Coulomb interaction, $\mu_{\alpha}=2M$, $\mu=8M/9$, M is the nucleon mass. According to Suh $\vec{v}_{nn}=-\vec{v}_{o}e^{-\beta^{2}r^{2}}$ ($\beta^{2}=0.266\cdot 10^{26}$ cm⁻²). The energy levels of the Be nucleus are computed by considering the vibrations along the axis of symmetry and around the center of mass of the two alpha particles. In a table, the excitation energies computed from formula (8) are compared with experimental data (Refs. 7, 3). Agreement is satisfactory. Levels with 9.3, 12.4, 14.1, and 15.5 MeV, which so far have not been found experimentally, are obtained theoretically. Their existence appears plausible. On the other hand, two very close levels 17.27 and 17.47 MeV, were found experimentally, to which only one theoretical (rotational) level with 17.2 MeV corresponds. Either there is really only one or there occurs a level splitting which is not covered by (8). From the results it may be concluded that all Be levels consist of

Card 2/3

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The Structure of the Be nucleus

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two groups: vibrations along the symmetry axis, with the excess neutron being in the ground state, and vibrations along the symmetry axis, with the excess neutron being in the first excited vibrational state. The groups are characterized by $n_2 = 0$ and $n_1 = 1$ (the quantum number n_1 corresponds to vibrations along the symmetry axis, n_2 to vibrations around the center of mass). It follows that n_2 is not greater than unity. Finally, the results obtained are compared with data on the n_1 be hyper-nucleus. The authors thank the collaborators of the Vychislitel'nyy tsentr Akademii nauk Armyanskoy SSR (Computing Center of the Academy of Sciences of the Armyanskaya SSR), as well as F. M. Ter-Mikayelyan and R. A. Aleksandryan for having computed the function tables on a "Yerevan" computer. There are 1 figure, 1 table, and 8 references, 1 of which is Soviet.

ASSOCIATION: Institut fiziki Akademii nauk Gruzinskoy SSR (Physics Institute of the Academy of Sciences of the Gruzinskaya SSR)

SUBMITTED: October 1, 1959

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Card 3/3

85683

S/056/60/038/006/025/049/tt B006/B070

24.6100 AUTHORS:

Kopaleyshvili, T. I.. Vashakidze, I. Sh.. Mamasakhlisov

V. I., Chilashvili, G. A.

TITLE:

The Alpha - Deuteron Model of the Li6 Nucleus

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960.

Vol. 38, No. 6, pp. 1758-1764

TEXT: A detailed discussion is given of the possibility of considering the Li6 nucleus to be made of an alpha particle and a deuteron. The energy of the relative motion of these subsystems of alpha and deuteron is calculated on the basis of one of the assumptions, and it is shown that this energy has a minimum in the region of negative values. Among others, a paper by Biel (Ref. 7) is discussed in the introduction; Biel has studied the binding energies of Be8 and C12 nuclei on the alpha-particle model and obtained a good agreement with the experiment by a proper choice of a mixture of Serber type and symmetric forces. In following Biel, the present authors assume that both the forces between two nucleons and their

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The Alpha - Deuteron Model of the Li⁶ Nucleus S/056/60/038/006/025/049/XX B006/B070

wave functions have a Gaussian form. It is further assumed that the sixnucleon system of the Li6 nucleus consists of two coupled subsystems, an alpha particle and a deuteron. which continually exchange nucleons, and that this system has an energy minimum. Parameters are defined which characterize the Li6 nucleus in the ground and the excited states. The eight possible states of a nucleon are defined by its spin, isospin, and belonging to one of the two subsystems, and have the form (a, b, c) where a, b, c, = 1, 2. These states are numbered from 1 to 8, and these numbers are used to characterize, for example, the wave functions. Thus, for example, the spatial part of the wave function of the Li6 nucleus is represented by $\psi(1234;56)$, where the first four indices refer to the nucleons of the alpha subsystem and the last two to the d subsystem. Since an analytical determination of the energy is not possible on account of the complicated expressions, a numerical calculation is suggested. Energy curves for the ground state of Li6 are found and shown in Fig. ! (Serbertype forces, Curve 1; symmetric forces, Curve 2). The ordinate of the curves is taken to be the difference $E(\lambda) - E(0)$, where E(0) is the energy of the system when the alpha particle and the deuteron are separated by an

Card 2/4

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The Alpha - Deuteron Model of the Li⁶ Nucleus S/056/60/038/006/025/049/XI B006/B070

infinite distance. The fact that these curves have a minimum shows that the nucleon system considered is stable. The minimum in both the cases is found for $\lambda=0.0316\cdot10^{26} \,\mathrm{cm}^{-2}$; the energy minima are at -1.58 Mev (Serbertype) and -1.42 Mev (symmetric forces). Finally, the excited state 0⁺ (T=1) of the Li⁶ nucleus is studied. Fig. 3 shows the curve E³(λ) - E⁴(0) as a function of λ for a mixture of Serber-type and symmetric forces. This curve has also a minimum (0.66 Mev) for the same value of λ as in the ground state; it has also a maximum at 0.0158.10²⁶ cm⁻². The value of excitation energy is found to be 4.77 Mev. which does not agree well with the experimental value of 3.57 Mev. The origin of this divergence is discussed. D. A. Kveselav and Ye. N. Dekanosidze of the Vychislitel'nyy tsentr AN Gruzinskoy SSR (Computation Center of the AS Gruzinskaya SSR), and R. A. Aleksandryan and F. M. Ter-Mikaelyan of the Vychislitel'nyy tsentr AN Armyanskoy SSR (Computation Center of the AS Armyanskaya SSR) are thanked for the calculations. There are 3 figures and 11 references: 3 Soviet, 3 British, 2 US. 1 French, 1 Italian and 1 Dutch.

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The Alpha - Deuteron Model of the Li 6 Nucleus S/056/60/038/006/025/049/XX B006/B070

Institut fiziki Akademii nauk Gruzinskoy SSR (Institute of ASSOCIATION:

Physics of the Academy of Sciences Gruzinskaya SSR)

SUBMITTED: December 19, 1959

Card 4/4

83189 s/056/60/039/002/026/044 B006/B056

24.6600 AUTHORS:

Kopaleyshvili, T. I., Vashakidze, I. Sh.,

Chilashvili, G. A.

TITLE:

Investigation of the (n.p) Reaction on the L16 Nucleus

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,

Vol. 39; No. 2(8), pp. 393-396

TEXT: It was the purpose of the present paper theoretically to determine the proton angular distribution in the (n,p) reaction on Lib in consideration of the neutron-proton correlation in the Lib nucleus. The authors investigated the (n,p) reaction on the Li6 nucleus on the basis of the alphadeuteron model of this nucleus, which had been worked out in earlier papers (Refs. 4, 5). They assume that the use of this model may lead to a better agreement between theory and experiment. It is assumed in this connection that the neutron and the proton, which are above the closed shell, form a bound state, so that the cheracteristic of the departure of the proton caused by the incidence of a neutron is due not only to direct interaction between these two particles (as assumed in the generally accepted

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Investigation of the (n.p) Reaction on the Li6 Nucleus

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theory), but also to an interaction between the inciding neutron and the neutron bound to the proton. A consideration of neutron-proton coupling in the nucleus must lead to an increase of the cross section at large angles when calculating the reaction cross sections, which corresponds to the experimental results obtained. A formula for calculating the angular distributions, formula (11) with (12) and (13) as definition formulas, is obtained and discussed. The numerical results of (11) are graphically represented for a 14-Mev energy of the incident neutron and oscillator-potential parameters of r ≈ 1.10-13 cm (curve I) and r ≈ 1.2.10-13 cm (curve II). The diagram also contains the experimental values. Both curves satisfactorily represent the experimental results (which have considerable error limits). Curve II does so somewhat more satisfactorily. In any case it is shown that a consideration of a proton-neutron coupling in the nucleus actually leads to an increase of the total (n_sp) cross section at large scattering angles. The authors finally thank V. I. Mamasakhlisov for his interest and discussions. There are I figure and 6 references: 2 Soviet ASSOCIATION:

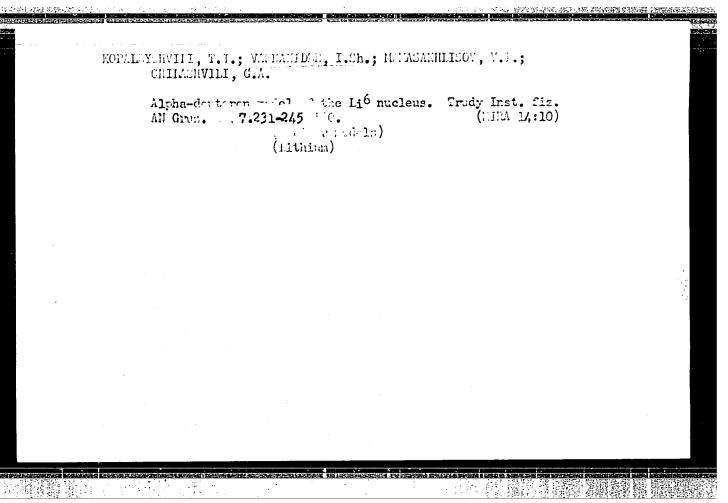
Institut fiziki Akademii nauk Gruzinskoy SSR (Institute of Physica of the Academy of Sciences Gruzinskaya SSR)

SUBMITTED:

APPROVED FOR RELEASE: 08/31/2001

Card 2/2

CIA-RDP86-00513R001858720006-4"



s/056/60/039/003/018/045 BO04/B060

Vashakidze, I. Sh., Kopaleyshvili, T. I., Mamasakhlisov, AUTHORS:

I., Chilashvili, G. A.

Resonance Scattering of Gamma Quanta on the Li7 Nucleus

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960, TITLE:

vol. 39, No. 3 (9), pp. 666-668 PERIODICAL:

TEXT: The authors studied the resonance scattering of gamma quanta on the Li nucleus with the excitation of levels 1/2 (0.477 Mev) and 5/2- (7.46 Mev) (Fig. 1). The calculation of the 5/2- level by means of a model of the oscillator potential, and with the spin-orbit interaction taken into account, is first discussed along with the conception of this level as the rotation of a rigid rotator consisting of an α -particle and a triton (Li7 = α + t), and the equation obtained in a previous paper (Ref. 2) concerning the quadrupole moment of Li7 is then written down: $Q_0 = (68/49)r^2$ (1), where r^2 denotes the mean square distance between

card 1/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4" Resonance Scattering of Gamma Quanta on the S/056/60/039/003/018/C45 B004/B060

alpha particles and triton. The following relation is written down for Li7 Nucleus an ellipsoid of revolution equivalent to this rotator: $3ZR^2\beta/\sqrt{5\pi}$ = $(68/49)r^2$ (2). Z = 3, R = radius of the equilibrium sphere, β = deformation parameter of the Li⁷ nucleus. Data supplied in a paper by A. S. Davydov and G. F. Filippov (Ref. 3) are made use of to write down equation (3) for the magnetic moment, and from (1) and (3) the following correlation function is obtained by substituting the datafound by V. Yu. Gonchar, Ye. V. Inopin. S. P. Tsytko (Ref. 4): (4). θ is the angle between the $I(\theta) \sim \left[1 + 1.22P_2(\cos\theta) + 2.77P_4(\cos\theta)\right]$ absorbed and emitted γ -quanta. Fig. 2 shows this function on the assumption of a single-particle- and a collective excitation. The value 1.5.10-13 sec was calculated for the lifetime of the state 1/2 (0.477 Mev) of the Li7 nucleus, when single-nucleon excitation was assumed, and the value $0.96^{\circ}10^{-13}$ was found when the alpha particle $\frac{1}{4}$ triton pattern was assumed. The value found experimentally is 1.09.10-13 sec. The assumption of the level 1/2- (0.477 MeV) being caused by spin reversal

Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"

Resonance Scattering of Gamma Quanta on the Li7 Nucleus		S/056/60/039/003/018/045 B004/B060
of triton, no experimental US.	ot of the nucleus, is therefore in results. There are 2 figures and	n better agreement with 5 references: 4 Soviet and
ASSOCIATION:	Tbilisskiy gosudarstvennyy unive University). Institut fiziki Aka (Institute of Physics of the Aca Gruzinskaya SSR)	demii nauk Gruzinskov SSD
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Vashakidze, I.Sh., Kopaleyshvili, T.I., Chilashvili, G.A.

AUTHORS:

Neutron polarization on disintegration of Be nuclei

TITLE:

by circularly polarized gamma quanta

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki,

v. 40, no. 2, 1961, 491 - 492

TEXT: As is known, circular polarization of gamma quanta can be determined from the polarization of photoprotons or photoneutrons which are emitted by nonpolarized nuclei. This is of interest in connection with the discovery of the non-conservation of parity in weak interactions. The best targets of the non-conservation of parity in weak interactions. The best targets of the non-conservation of parity in weak interactions. The best targets of the non-conservation polarization low quantum energies proved to be H2 or Be2. No photoneutron polarization has hitherto heen observed in Be3; for this reason, the authors theotion has hitherto heen observed in Be3; retically studied the polarization of photoneutrons which are released by circularly polarized quanta. They obtained the following expression for the z-component (in the direction of the inciding quantum) of the polarization vector of photoneutrons from Be9:

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"

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Neutron polarization on disintegration...

$$P_{z}(\pm 1) = \pm \frac{0.5 \left\{1.28 A_{2}^{2} - A_{0}^{2} - \left[2A_{0} A_{2} \cos \left(\eta_{0} - \eta_{2}\right) + 1.53 A_{2}^{2}\right] P_{z} \left(\cos \theta\right)\right\}}{A_{0}^{2} + 2A_{0} A_{2} \cos \left(\eta_{0} - \eta_{2}\right) P_{z} \left(\cos \theta\right) + 2.14 A_{2}^{2} - 0.76 A_{2}^{2} P_{z} \left(\cos \theta\right)},$$

$$A_{0} = \left\{R_{0} A_{1}^{2} R_{1} A_{2}^{2} - R_{1}^{2} A_{2}^{2} - R_{1}^$$

where η_0 1/2 1/2 1/2 3/2 2/2 5/2 scattering angle of the photoneutrons; the upper and the lower sign correspond to right- and left-handed quantum polarization, respectively. Since the direction of the axis can be arbitrarily chosen P_x and P_y coincide after averaging over γ . Formula (1) contains the scattering phases η and η , and the radial integrals A_0 and A_2 . These quantities can be easily determined with the aid of the potential parameters of the neutron in the Be nucleus, i.e., V_1 3/2=12.16 MeV, V_0 1/2=3 MeV and v_0 =5.10-13cm if the quantum energy is known. Thus, the angular dependence of the z-component of the polarization vector of the photoneutron can be determined. It is shown in the figure for quantum energies of 2, 3, 4, and 20 MeV. These energies

20458 \$/056/61/040/002/018/047 3102/3202

Neutron polarization on disintegration...

were chosen because the elastic scattering cross section of photoneutrons in this range is sufficiently large (of the order of some barns); besides, also the photonuclear process has a maximum cross section at 2-4 Mev so that these energies are especially adequate for obtaining a high degree of efficiency. With E_y=20 Mev the sign of circular polarization can be determined only by the photonuclear reaction. As may be seen from the diagram, neutron polarization attains almost 50% at certain angles; according to the direction of circular polarization of the quanta, photoneutron polarization has different signs. The curves in the diagram hold for right-handed polarization of the quantum. The authors thank V.I. Mamasakhlisov and S.G. Matinyan for discussions. There are 1 figure and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English language publication reads as follows: E. Guth, C. Mulin, Phys. Rev. 76 234, 1949.

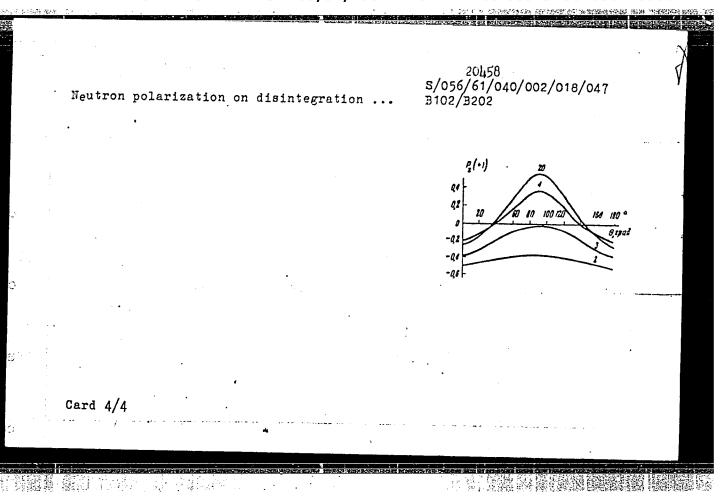
ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tbilisi State Univer-

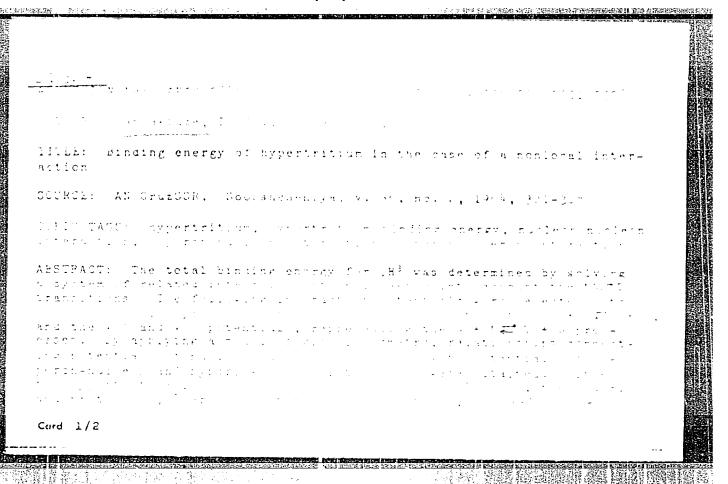
sity) Institut fiziki Akademii nauk Gruzinskoy SSR (Institute

of Physics of the Academy of Sciences Gruzinskaya SSR)

SUBMITTED: May 23, 1960

Card 3/4





APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"

1, 18317-65 ACCESSION NEE: AP5000645 interactions occur in a state 18. Therefore, the potentials vND and 78% were used only in the singlet state. The cinding energy was calculated from Scarce starks endetines for Schoolston, two as is to account the transitions (The control of the province of the province of the province of the province of the prince of the prince of the province of the prince of the province of the province of the province of the prince of the prince of the province of the province of the prince o in solving the equations. In this approximation, the solutions of orthograph equations are solutions. the last considerable of the property of the property of the limit when the Levil transitions are not possible, the value for binding corresponding to x_0 and x_0 are not less result shows that the Amil transitions are important and should be taken into considerstion. Orig. art. bas. 27 formulas. ASSOCIATION: Thilleskiy resulters tweeth to we tweeth the Christen state university. SUBMITTED: 12Mar64 ENGL: 00 SUB CODE: NP NO REF SOV: 003 17 m. +: 17 ATD PF288 - 3155 Card 2/2

ACCESSION NR: AP4042786

s/0020/64/157/003/0557/0560

AUTHORS: Vashakidze, I. Sh.; Chilashvili, G. A.

TITLE: Binding energy of hypertritium in the case of nonlocal interaction

SOURCE: AN SSSR. Doklady*, v. 157, no. 3, 1964, 557-560

TOPIC TAGS: hyperon, tritium, binding energy, lambda particle, sigma particle

ABSTRACT: A study is made of hypertritium under the assumption of a nonlocal factorizing interaction between any pair of particles, using the Gell-Mann global symmetry hypothesis (Phys. Rev. v. 106, 1296, 1957). The total energy of the $_{\Lambda}{}^{\rm H^3}$ hypernucleus is found by

solving a system of coupled integral equations with allowance for the $\overline{AN} \xleftarrow{\longrightarrow} \Sigma N$ transitions. These transitions were not taken into account in other similar calculations. The coupled Schroedinger equa-

Card 1/3

ACCESSION NR: AP4042786

tions are first written down for hypertritium with allowance for $\Lambda \stackrel{\longrightarrow}{\leftarrow} \Sigma$ transitions in the case of local interaction, after which the transition is made to the equations for a nonlocal factorizing inter-This system can be reduced by integration with respect to the angles to a system of three one-dimensional integral equations, which can be easily solved with the aid of computers. Account is taken of the fact that the binding energy of the hypertritium differs little from the binding energy of the deuteron, and an approximation considered by Mitra (Nucl. Phys. v. 32, 429, 1962) can therefore be used. In this approximation the eigenvalues of the energy are determined from the vanishing of an eight-order determinant. The smallest root of this determinant corresponds to a total hypertritium binding energy of 2.904 MeV, which is in satisfactory agreement with the experimental value 2.3 MeV. If the $\Lambda \xleftarrow{\longrightarrow} \Sigma$ transitions are not included, the binding energy obtained is 4.6 MeV, showing that the transitions cannot be neglected. It is thus shown that by using the model of global symmetry and taking the interaction between the par-

Card 2/3

ACCESSION NR: AP4042786

ticles in the form of a nonlocal factorizing potential in the Yamaguchi form, the observed total binding energy of hypertritium can be explained by taking the $\Lambda \leftarrow \Sigma$ transitions into account. "We thank V. G. Solov'yev for continuous interest and discussions, V. I. Ogiyevetskiy for advising us on problems in the field of strong interactions, and A. V. Rakit*skiy for programming the problem." Orig. art. has: 14 formulas. Report presented by N. N. Bogolyubov.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 12Feb64

ENCL: 00

SUB CODE: NP

NR REF SOV: 003

OTHER: 006

Card 3/3

L 11822-65 EWT(1) IJF(c)/ACT(a)-5/ESO(t) S/0020/64/158/006/1302/1305 ACCESSION NR: AP4048034

AUTHORS: Vashakidze, I. Sh.; Muradyan, R. M.; Tavkhelidze, A. N.; Chilashvili, G. A.; Shelest, V. P.

TITLE: Investigation of the analytic properties of the scattering amplitude in the nonrelativistic three-body problem

SOURCE: AN SSSR. Doklady*, v. 158, no. 6, 1964, 1302-1305

TOPIC TAGS: analytic function, meromorphic function, Regge pole, scattering amplitude, angular momentum

ABSTRACT: The authors indicate that earlier attempts to determine the singularities, especially moving branch points, of the scattering amplitude in the complex angular momentum plane are still inconclusive, and investigate the analyticity of the scattering amplitude for the three-body problem in which a free particle is scattered by the bound state of the two other particles. It is shown that formal

Card 1/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"

L 14822-65

ACCESSION NR: AP4048034

continuation of the kernels of the appropriate integral equations leads to incorrect results, for rearrow with are spelled out. It is shown, however, that if the matrix element that determines the probability of scattering by the bound state is expanded in a perturbation theory series, each term of the expansion, taken in the impulse approximation, can be set in correspondence with a Feynman diagram, from which it can be deduced that the scattering amplitude is meromorphic in the complex angular momentum plane. The result is of interest in the sense that each term of the perturbation theory series may have a cut, whereas the series as a whole is a meromorphic function. A detailed exposition of the result is contained in Preprint R-1662 of the Joint Irstitute of Nuclear Research. "In conclusion, we thank N. N. Bogolyubov and A. A. Logunov for discussions, and also B. A. Arbuzov, A. V. Yefremov, I. T. Todorov, and O. A. Khrustalev for fruitful discussions." This report was presented by N. N. Bogolyubov. Orig. art. has: 21 formulas.

Card 2/3

1. 11822-65 ACCESSION NR: AP4048034

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy

(Joint Institute of Nuclear Research)

SUBMITTED: 18Apr64 ENCL: 00

SUB CODE: MA, NP NR REF SOV: 003 OTHER: 004

| Card 3/3

VASHAKIDZE, K.G.

Use of a powder from the leaves of Digitalis diliats in treating chronic cardiac insufficiency. Trudy Inst. klin. 1 eksper. kard. AN Graz. SSR 98357-360 - 163. (MIRA 1787)

I. Kafedra fakulitetskoy terapii mediasinskogo instituta i terapevtieheskogo otdeleniya II-ty gorodskoy klinicheskoy bolinitsy, Tbilisi.

VHSHARITE- , W.

USSE/Cultivated Plants. Cereals.

М

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77632.

Author : Vashakidze, O.N.

Inst : Georgia Scientific-Research Institute of Hydrotechnics

and Amelioration.

Title : Some Features of Water Supply of Corn Crops in the

Conditions of Sameora.

Orig Pub: Tr. Gruz. n.-i. in-ta gidrotekhn. i melior., 1957,

vyp. 18-19, 73-87.

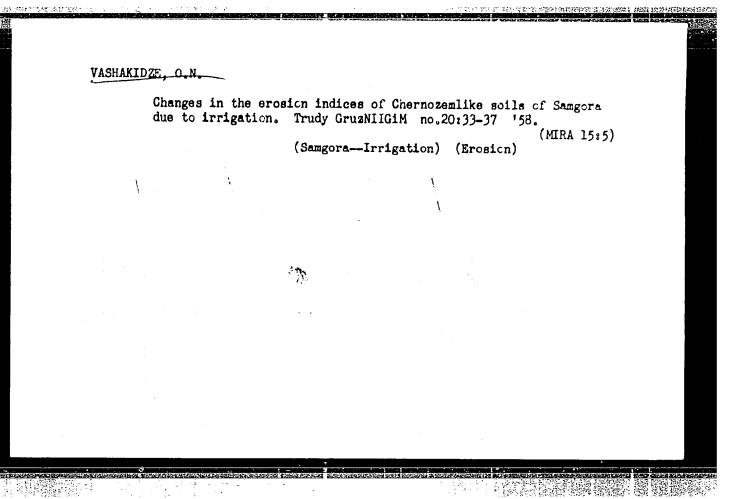
Abstract: No abstract.

Card : 1/1

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VASHAKIDZE, O. N.: Master Agric Sci (diss) -- "Some aspects of the movement of water in the soils of Samgora and the water supply of corn". Tbilis, 1958. 22 pp (Min Agric USSR, Georgian Order of Labor Red Banner Agric Inst), 100 copies (KL, No 12, 1959, 130)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"



KHAMZAYEV, M.M.; VASHAKIDZE, O.N.

Development of the root system of some crops in drained gley soils.

Trudy Gruz NIIGiM no.21:209-218 '60. (MIRA 16:1)

(Crops and soils)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"

CHACHAVA, K.V., dota.; VASHAKIDZE, P.D.

Using a vacuum extractor instead of obstetrical forceps [with summary in English]. Akush. i gin. 33 no.6:11-15 M-D '57.

(MIRA 11:3)

1. Iz kafedry akusherstva i ginekologii (zav.-prof. h.V.Elianhvili)

Tbilisskogo instituta usovershenstvovaniya vrachey.

(DELIVERY

vacuum extractor as substitute for obstetric forceps)

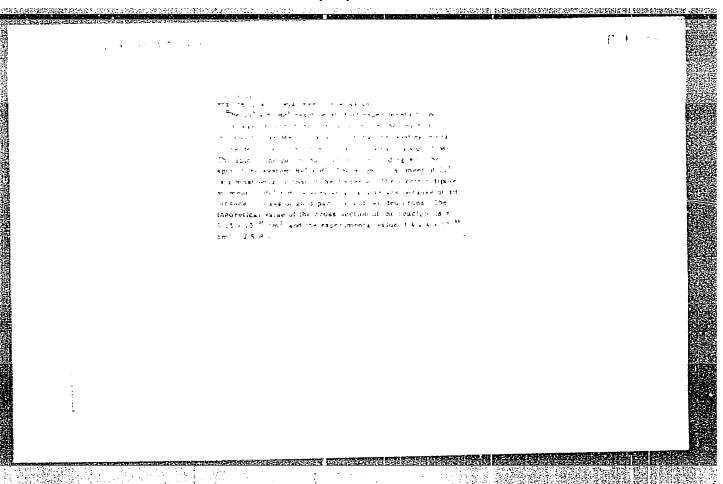
(OBSTETRICS, appar. & instruments,

vacuum extractor (Rus)

VASHAKIDZE, P. D., Cand Med Sci -- "Towards the problem of the treating astherized generic-activity by the vacuum stimulating agent." Tbilisi, 1961. (Tbilisi State Med Inst)

(KL, 8-61, 259)

- 440 -



APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720006-4"

MANDFHGALADVE, E.H.; VASCAKILES, V.1.; CALEGRAVA, S.S.; KARRELL, ...

Some clinical and experimental data on the toxic prop. ties of potassium permanganate. Soob. AN Graz. SSR 36 no.3:075-026. (ALEA 18:3)

1. Institut giglyeny truda i professional nykh zabolevanty in...
B.G. Makhviladze Ministerstva zdravookhraneniya Gruzess. Sabaitted May 29, 1964.

L 3820-66

ACCESSION NR: AP5024575

UR/0251/65/039/002/0471/0474

AUTHOR: Vashakhidze, V. I.

TITLE: Certain questions on the harmful effect of 1-naphthyl-N-methylcarbanate on the sexual function of experimental animals

SOURCE: AN GruzSSR. Soobshcheniya, v. 39, no. 2, 1965, 471-474

TOPIC TAGS: pesticide, toxicology, biological reproduction, poison effect

ABSTRACT: The effects of the nitrogen-containing pesticide 1-naphthyl-N-methyl-carbanate on the sexual functions of white rats were investigated. Dosages of 0.05, 0.1 and 0.3 g/kg were administered orally. Chronic poisoning in female rats produced disruption of the sexual cycle, prolonged pregnancies, decreased number of liters per rat and number of individuals per liter, or often complete sterility. Frequent deformity in the liters produced by poisoned females and a large percentage of deaths both before and after birth were observed. The embryos were found to be most sensitive to the adverse effects of 1-naphthyl-N-methylcarbanate during the period of organ development, i. e., the 9th to the 10th day of embryonic development. The primary effect of the poison on males was the development of abnormal spermatogenesis. The spermatozoa were less motile than in controls, had reduced

Card 1/2

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CIA-RDP86-00513R001858720006-4

L 3820-66

ACCESSION NR: AP5024575

respiratory functions and many were deformed and dead. The great majority of males with defective spermatozoa were found to be sterile. There was no development of general systemic toxocity except for some minor changes in the composition of the peripheral blood and in the function of the central nervous system. It is considered of utmost importance to establish whether the observed results of the poison are due to a genetic mutation and experiments toward this end are planned or in progress.

ASSOCIATION: Institut gigieni truda i profzabolevaniy im. N. I. Makhviladze MZ GSSR (Institute of Industrial Hygiene and Occupational Diseases)

SUBMITTED: 25Feb65

ENCL: 00

SUB CODE: LS

NO REF SOV: 005

OTHER: 003

Card 2/2

VASHAKIDZE, V.I.

Some problems of the harmful effect of sevin on the sexual function in laboratory animals. Soob. AN Gruz. SSR 39 no.2:471-474 Ag 165. (MIRA 18:9)

1. Institut gigiyeny truda i professional nykh zabolevaniy imeni Makhviladze Ministerstva zdravookhraneniya GruzSSR. Submitted February 2, 1965.